Attorney Docket No. 392.1804

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Toshiaki OTSUKI et al.

Application No.: 10/624,600

Confirmation No.: 7631

Filed: July 23, 2003

U.S. Patent No.: 6,823,234

Issued: November 23, 2004

For: CURVE INTERPOLATION METHOD

ATTENTION

CERTIFICATE OF CORRECTION

BRANCH

Certificate

MAR 1 0 2005

of Correction

REQUEST FOR CERTIFICATE OF CORRECTION

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

Patentee(s) respectfully request(s) that a Certificate of Correction be issued in the subject patent, pursuant to 35 USC § 254 and 37 CFR § 1.322, to correct the error(s) shown on the attached Form PTO-1050. A check in the amount of $100 to cover the cost of the Certificate is attached.

More particularly, the portion of the specification from column 1, line 40 to column 2, line 12 corresponds to page 12 of the original application, which page was apparently misplaced in the specification of the U.S. PTO file and, as is apparent from the page numbering, the same instead should have been positioned between original application specification pages 11 and 13. Accordingly, the transfer and insertion of the text reproduced in the attached Certificate of Correction effectively reestablishes the content of the application, page 12, between application pages 11 and 13.

No new matter is presented in the foregoing and accordingly, it reestablishes the proper sequence of the specification, pages 11, 12 and 13 as was originally intended, as evidenced by the pagination of those pages.
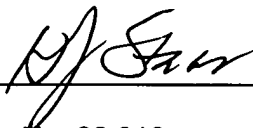
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One or more of the errors shown on the attached Form PTO-1050 is or are within the responsibility of the undersigned; each thereof is of a clerical or typographical nature or of minor character and occurred in good faith, and the correction thereof is consistent with the prosecution record.

Respectfully submitted,

STAAS & HALSEY LLP

Date: _~~March 03, 2005~~_   By: _____

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UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO : 6,823,234

DATED : November 23, 2004

INVENTOR(S) : Toshiaki OTSUKI et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

Transfer the portion of the specification, from column 1, line 40 to "the interpolation points." at column 2, line 12, which reads:

$$--f(t)_x = A_x t^3 + B_x t^2 + C_x t + D_x$$

$$f(t)_y = A_y t^3 + B_y t^2 + C_y t + D_y$$

$$f(t)_z = A_z t^3 + B_z t^2 + C_z t + D_z$$

Thus obtained curve Ce is shown in FIG. 20.

Then, interpolation is performed on the defined curve Ce with a unit not greater than a set unit in preparing the sequence of command points (Step S16).

In the foregoing embodiment, at the start of the procedure, all of the command points P0, P1, P2, ... , Pn-1, Pn are read at Step S1. Alternatively, only the necessary command points may be read and the procedure may be carried out on the read points, so that the approximate curve is successively created while reading the data of the command points to expedite the procedure.

In obtaining interpolation points, i.e. shape-defining points, respective two points are interpolated between adjacent twos of the command points in the foregoing embodiment, respective points more than two may be interpolated between adjacent twos of the command points. Further, in creating the approximate curve Cm, the shape-defining points not greater than two are selected before and after the shape-defining point Qi. The shape-defining points greater than two may be selected. Furthermore, one or more of the command points P0, P1, P2, ... , Pn-1, Pn may be used as the shape-defining points with the interpolation points Q1, Q2, ... , Q2n.

If a line segment connecting adjacent two of the command points P0, P1, P2, ... , Pn-1, Pn is shorter than a reference value, an interpolated point Pj' such as a middle point between such adjacent command points Pj, Pj+1 may be regarded as a substitute command point for the adjacent command points Pj, Pj+1 which are to be deleted. In this case, it is determined whether or not a distance between the adjacent command points Pi and Pi+1 is not greater than the predetermined at Step S2, and if the distance is not greater than the predetermined value, the above procedure is performed to define a substitute command point for obtaining the interpolation points.--

and insert same in column 8, between lines 15 and 16.

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CERTIFICATE OF CORRECTION

PATENT NO : 6,823,234

DATED : November 23, 2004

INVENTOR(S) : Toshiaki OTSUKI et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

Column 3, line 3, change "describe" to --described--

Column 5, line 65, change "a" to --α--

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